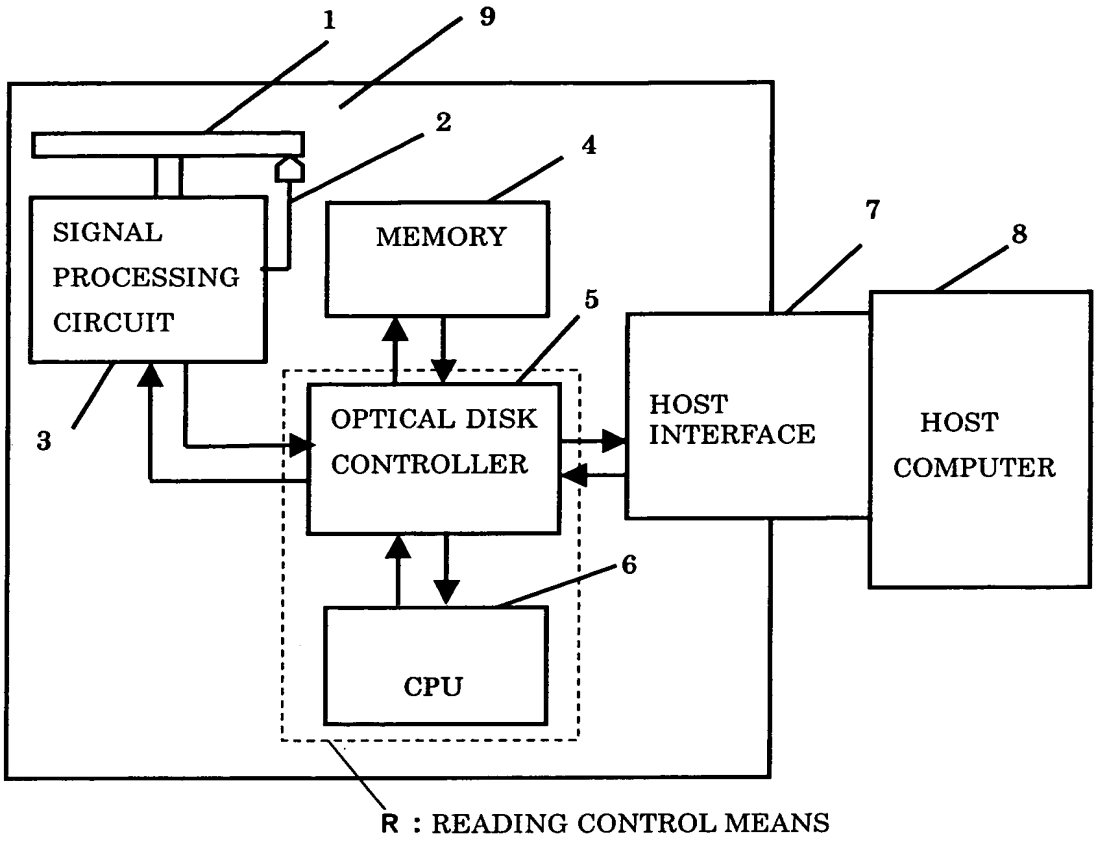
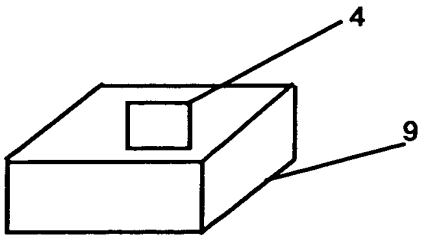
FIG.1



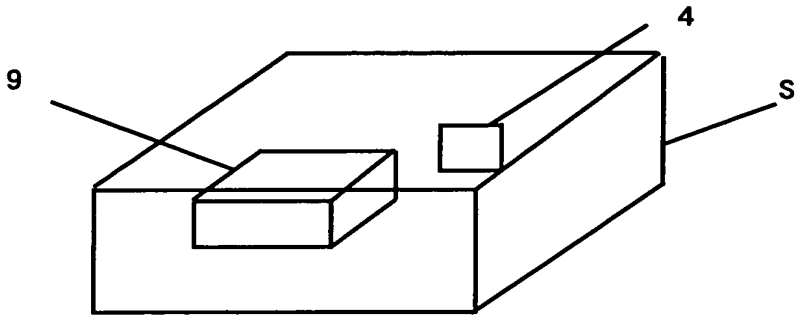
EP 0 954 860 B1

FIG.2

(A)



(B)



(C)

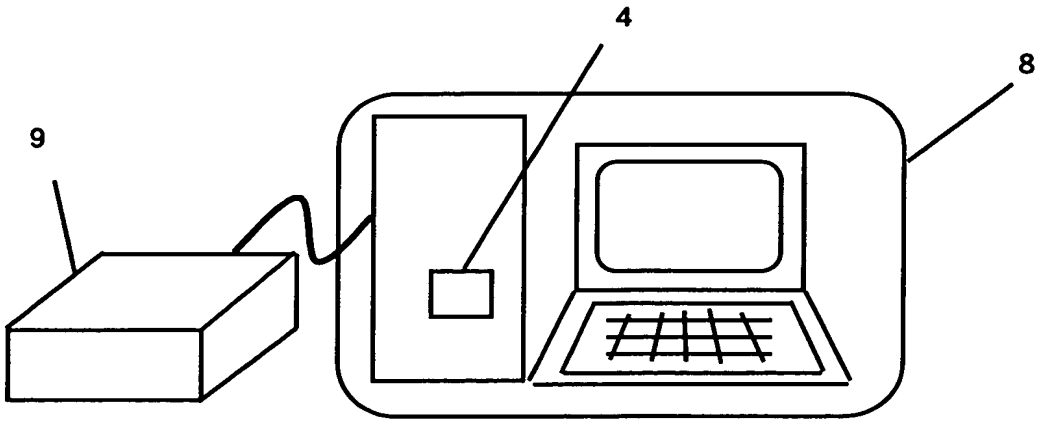
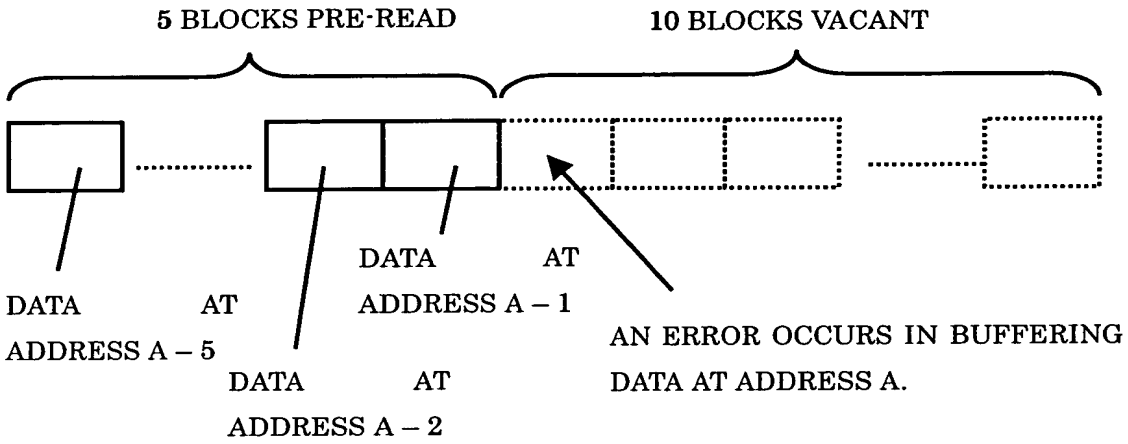


FIG.3

(A)



(B)

DEFECTIV BLOCK LIST

SLR FLAG	ADDRESS OF DEFECTIVE BLOCK	ADDRESS OF ALTERNATIVE BLOCK	
0	ADDRESS α	ADDRESS β	①
1	ADDRESS A	NO ALTERNATIVE BLOCK AVAILABLE	②
1	ADDRESS A + 4	NO ALTERNATIVE BLOCK AVAILABLE	
1	ADDRESS A + 12	NO ALTERNATIVE BLOCK AVAILABLE	

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FIG.4

(A)) READ COMMAND

TYPE	OFFSET	DETAILS
COMMAND	0	CODE VALUE TO INDICATE READ COMMAND
PARAMETER	1	OPTION CODE
	2	
	3	BUFFER PAGE ADDRESS
	4	
	5	NUMBER OF PAGES PROCESSED
	6	
	7	HEAD ADDRES
	8	
	9	
	10	

(B)) SDL SETTING COMMAND

TYPE	OFFSET	DETAILS
COMMAND	0	CODE VALUE TO INDICATE SDL SETTING COMMAND
PARAMETER	1	OPTION CODE
	2	
	3	PDL POINTER
	4	
	5	
	6	SDL POINTER
	7	
	8	

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FIG.5

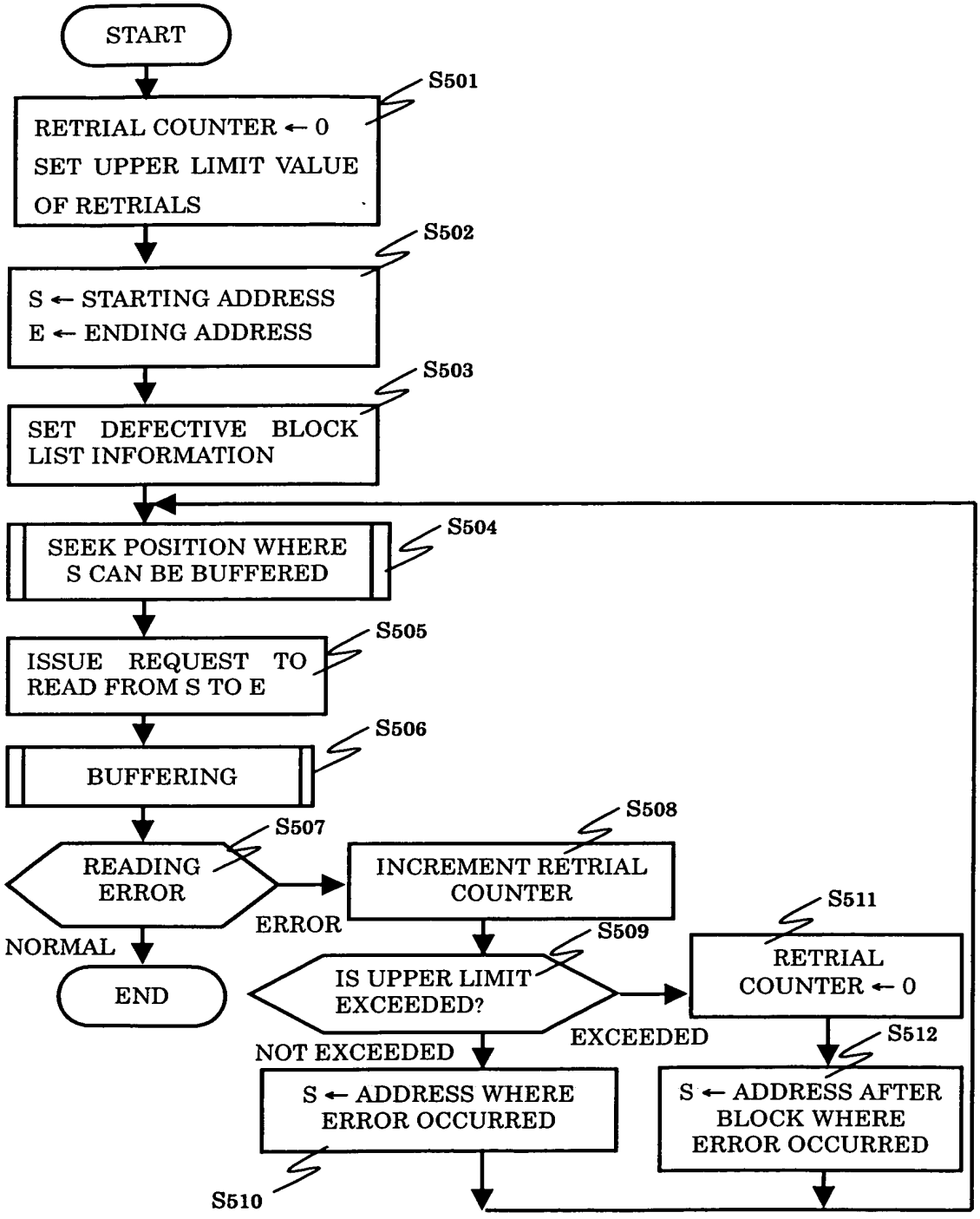
START
S501
RETRIAL COUNTER ← 0
SET UPPER LIMIT VALUE OF RETRIALS
S502
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S503
SET DEFECTIVE BLOCK LIST INFORMATION
S504
SEEK POSITION WHERE S CAN BE BUFFERED
S505
ISSUE REQUEST TO READ FROM S TO E
S506
BUFFERING
S507
READING ERROR
ERROR
NORMAL
END
S508
INCREMENT RETRIAL COUNTER
S509
IS UPPER LIMIT EXCEEDED?
EXCEEDED
NOT EXCEEDED
S510
S ← ADDRESS WHERE ERROR OCCURRED
S511
RETRIAL COUNTER ← 0
S512
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED

FIG.6

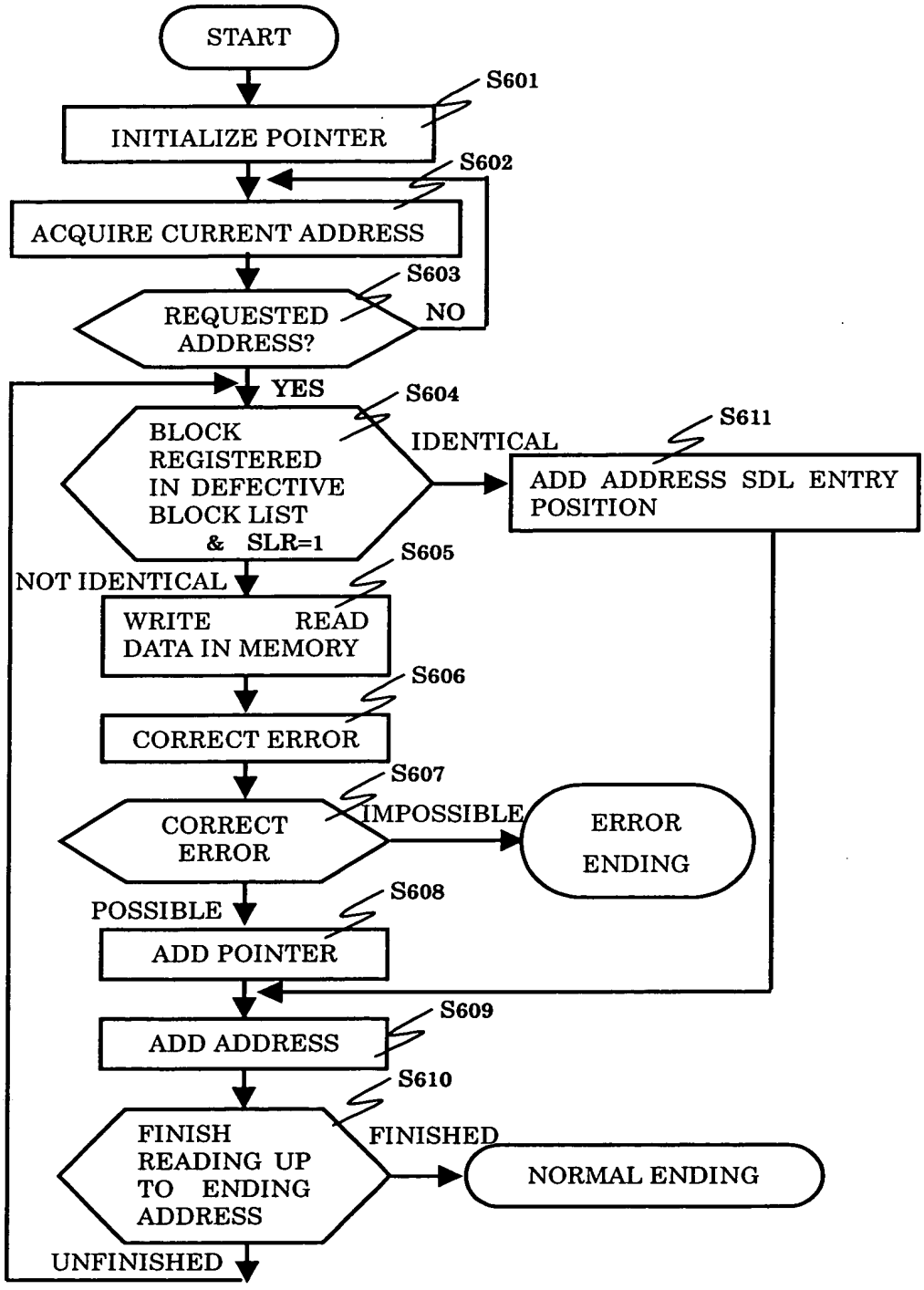
START
S601
INITIALIZE POINTER
S602
ACQUIRE CURRENT ADDRESS
S603
REQUESTED ADDRESS?
NO
YES
S604
BLOCK REGISTERED IN DEFECTIVE BLOCK LIST & SLR=1
IDENTICAL
S611
ADD ADDRESS SDL ENTRY POSITION
NOT IDENTICAL
S605
WRITE READ DATA IN MEMORY
S606
CORRECT ERROR
S607
CORRECT ERROR
IMPOSSIBLE
ERROR ENDING
POSSIBLE
S608
ADD POINTER
S609
ADD ADDRESS
S610
FINISH READING UP TO ENDING ADDRESS
FINISHED
NORMAL ENDING
UNFINISHED

FIG.7

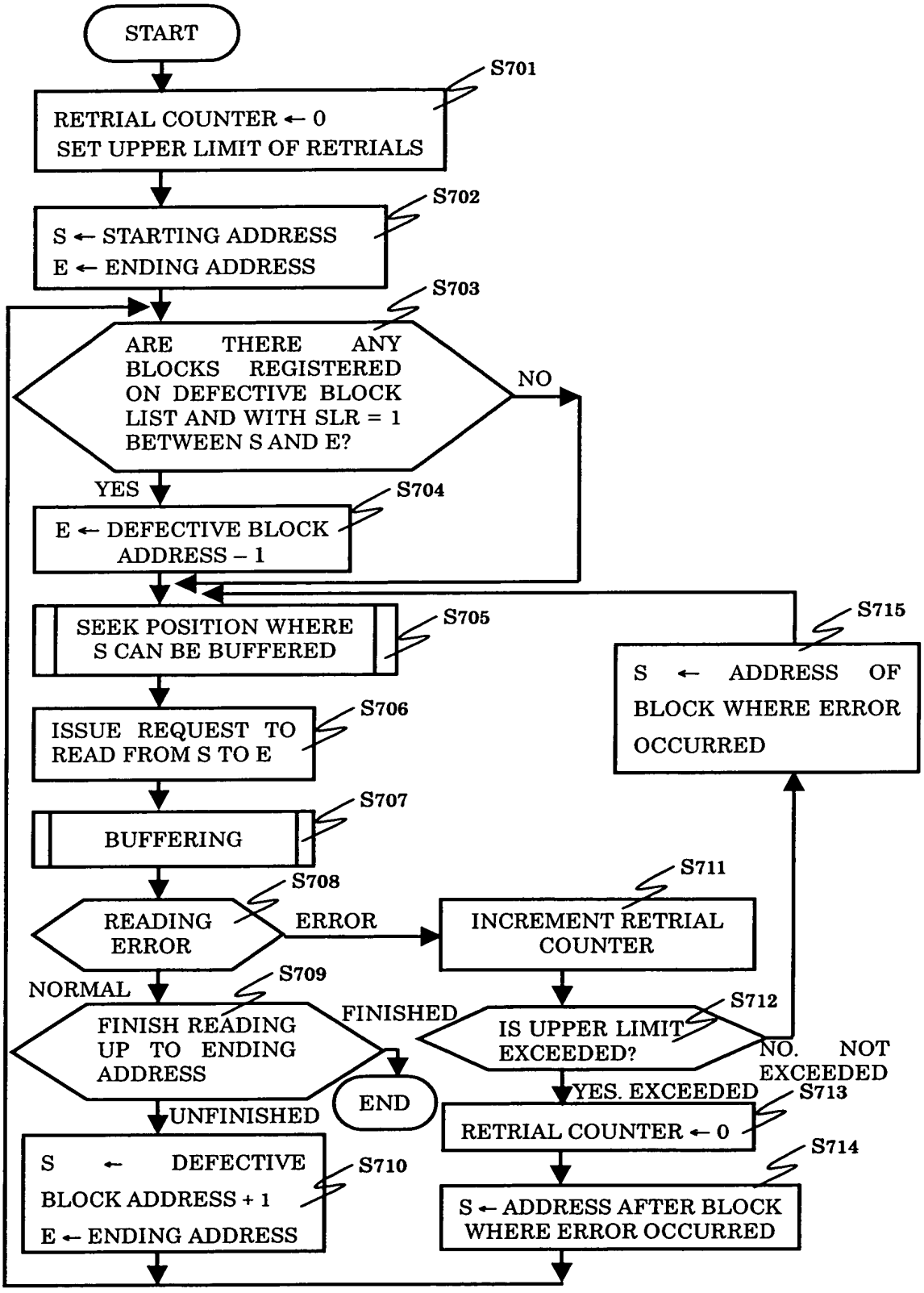
START
S701
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S702
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S703
ARE THERE ANY BLOCKS REGISTERED ON DEFECTIVE BLOCK LIST AND WITH SLR = 1 BETWEEN S AND E?
NO
YES
S704
E ← DEFECTIVE BLOCK ADDRESS – 1
SEEK POSITION WHERE S CAN BE BUFFERED
S705
ISSUE REQUEST TO READ FROM S TO E
S706
BUFFERING
S707
READING ERROR
S708
ERROR
INCREMENT RETRIAL COUNTER
S711
NORMAL
FINISH READING UP TO ENDING ADDRESS
S709
FINISHED
END
IS UPPER LIMIT EXCEEDED?
S712
NO. NOT EXCEEDED
YES. EXCEEDED
RETRIAL COUNTER ← 0
S713
UNFINISHED
S ← DEFECTIVE BLOCK ADDRESS + 1
E ← ENDING ADDRESS
S710
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED
S714
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED
S715

FIG.8

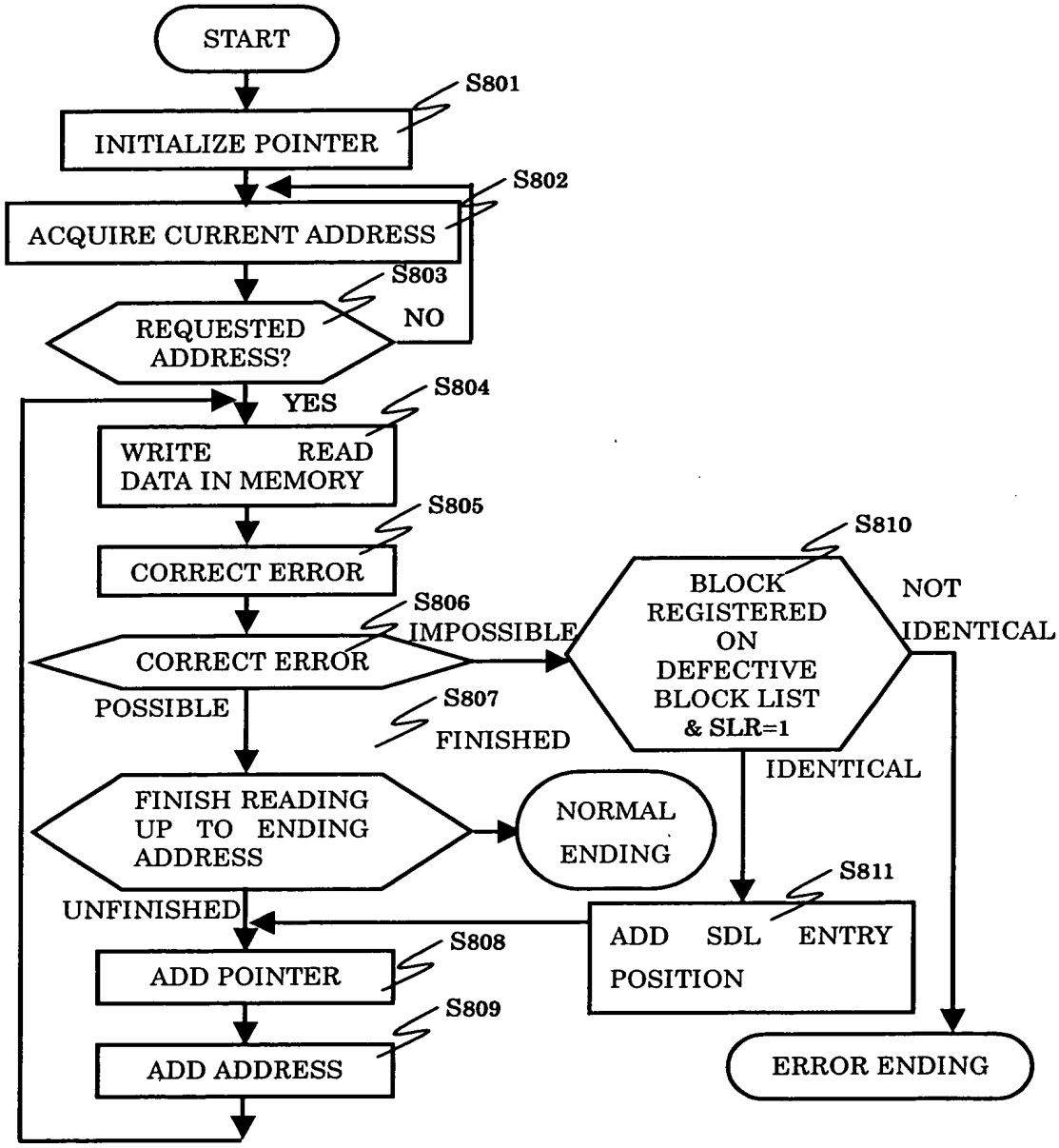

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FIG.9

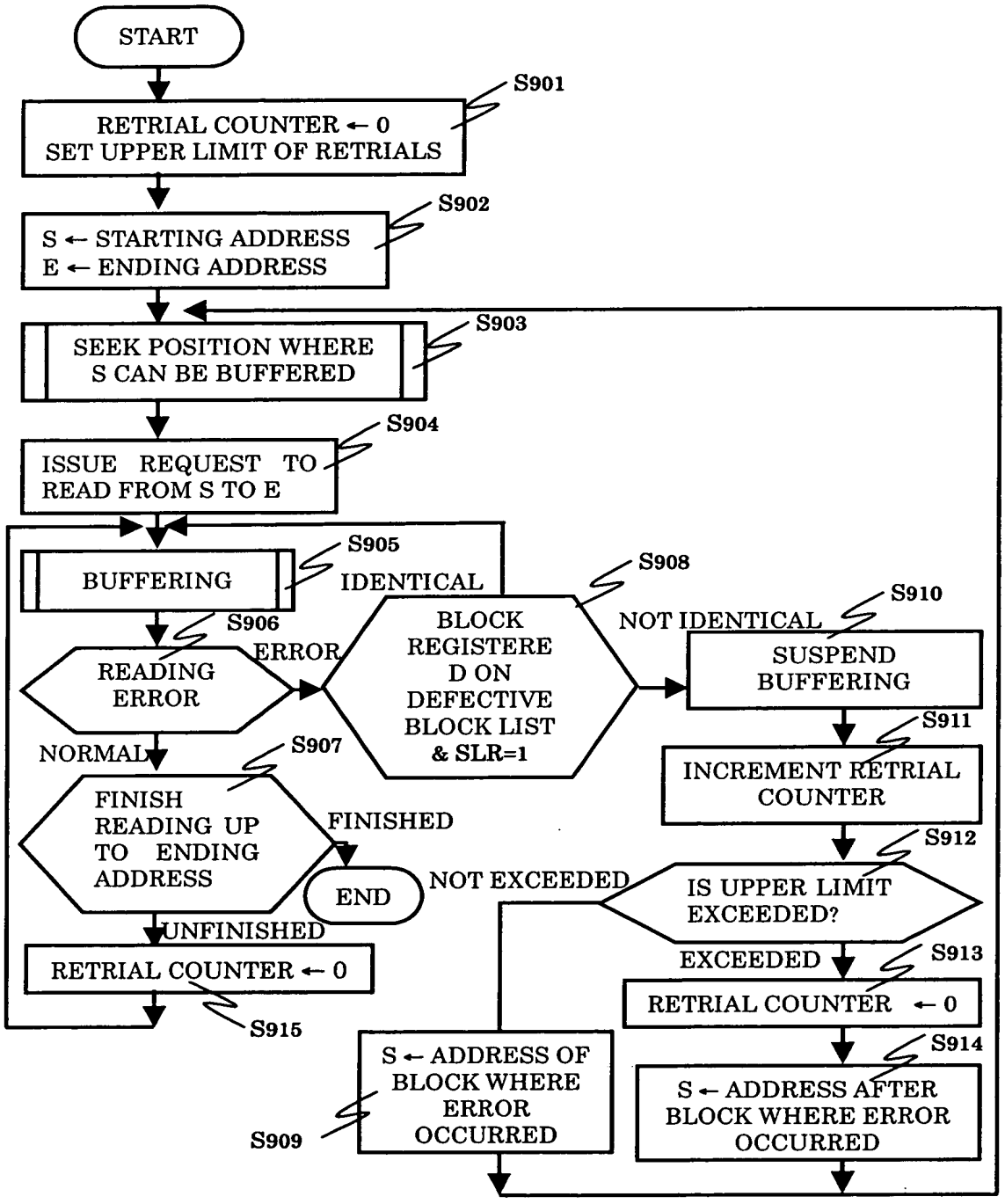
START
S901
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S902
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S903
SEEK POSITION WHERE S CAN BE BUFFERED
S904
ISSUE REQUEST TO READ FROM S TO E
S905
BUFFERING
S906
READING ERROR
ERROR
NORMAL
S907
FINISH READING UP TO ENDING ADDRESS
FINISHED
END
UNFINISHED
RETRIAL COUNTER ← 0
S915
IDENTICAL
S908
BLOCK REGISTERED ON DEFECTIVE BLOCK LIST & SLR=1
NOT IDENTICAL
S910
SUSPEND BUFFERING
S911
INCREMENT RETRIAL COUNTER
S912
IS UPPER LIMIT EXCEEDED?
NOT EXCEEDED
EXCEEDED
S913
RETRIAL COUNTER ← 0
S914
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED
S909
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED

FIG.10

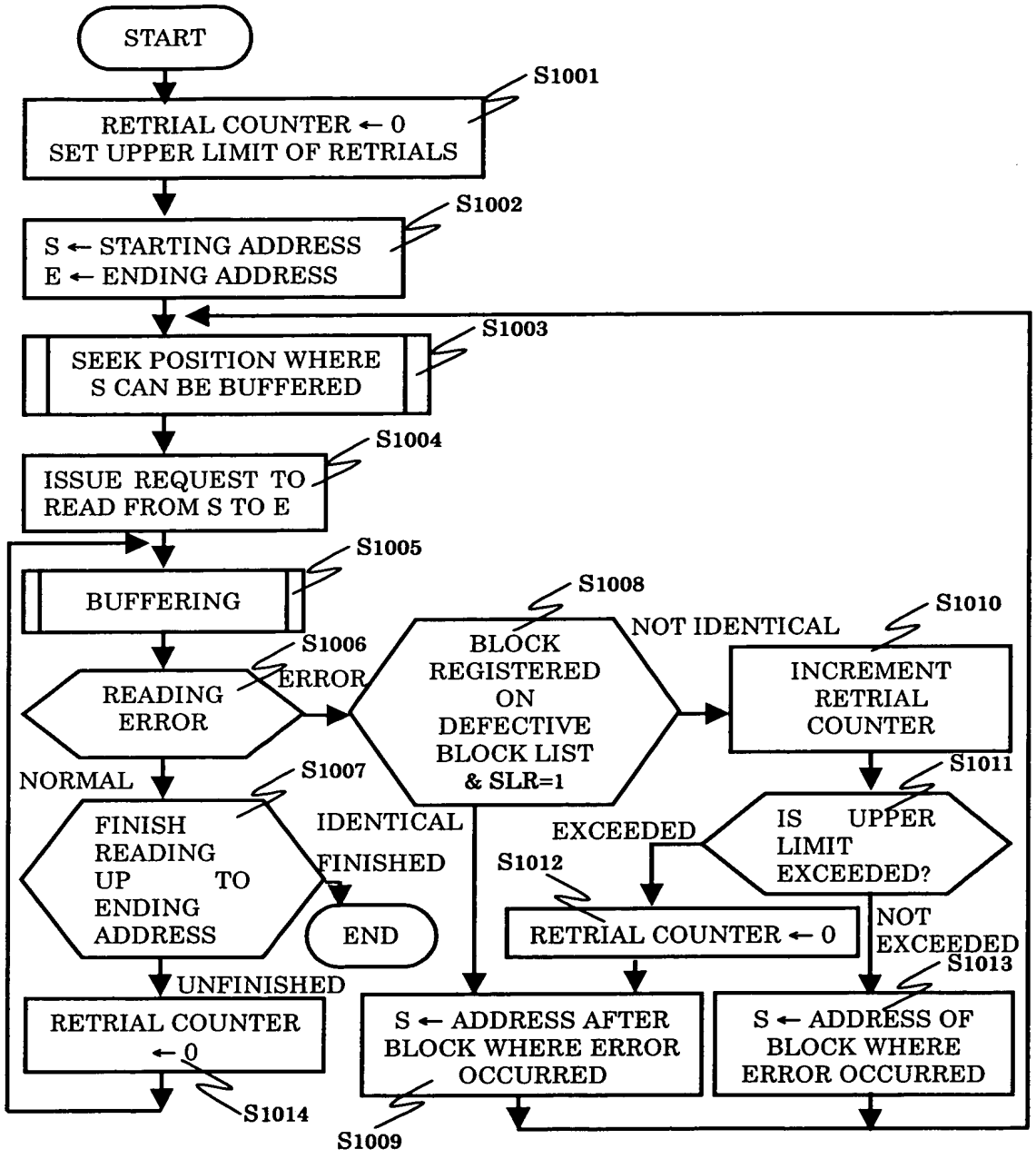
START
S1001
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S1002
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S1003
SEEK POSITION WHERE S CAN BE BUFFERED
S1004
ISSUE REQUEST TO READ FROM S TO E
S1005
BUFFERING
S1006
READING ERROR
ERROR
S1008
BLOCK REGISTERED ON DEFECTIVE BLOCK LIST & SLR=1
NOT IDENTICAL
S1010
INCREMENT RETRIAL COUNTER
S1011
IS UPPER LIMIT EXCEEDED?
EXCEEDED
NOT EXCEEDED
S1012
RETRIAL COUNTER ← 0
S1013
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED
NORMAL
S1007
FINISH READING UP TO ENDING ADDRESS
IDENTICAL
FINISHED
END
UNFINISHED
RETRIAL COUNTER ← 0
S1014
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED
S1009

FIG.11

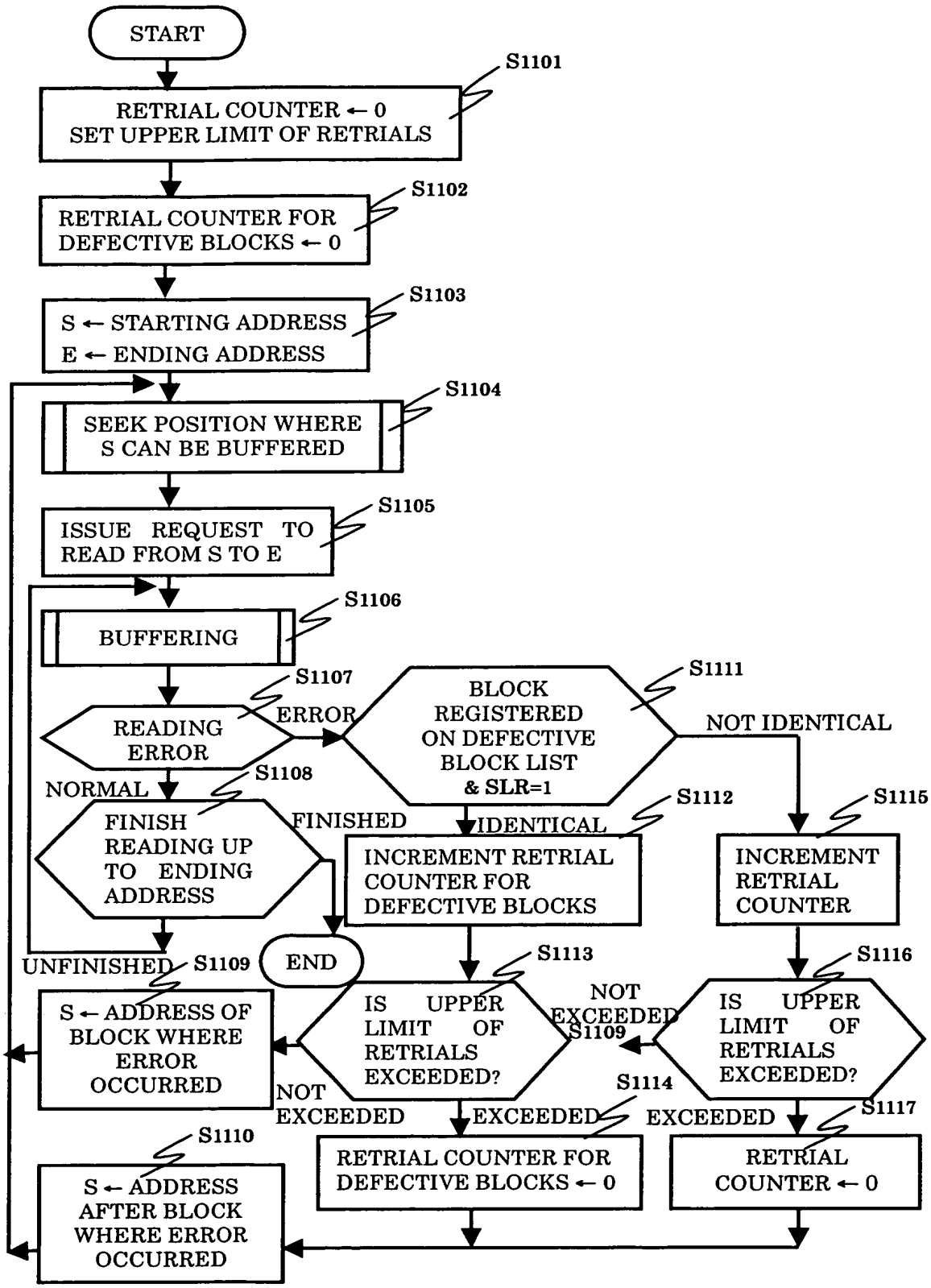
START
S1101
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S1102
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
S1103
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S1104
SEEK POSITION WHERE S CAN BE BUFFERED
S1105
ISSUE REQUEST TO READ FROM S TO E
S1106
BUFFERING
S1107
READING ERROR
ERROR
S1111
BLOCK REGISTERED ON DEFECTIVE BLOCK LIST & SLR=1
NOT IDENTICAL
NORMAL
S1108
FINISH READING UP TO ENDING ADDRESS
FINISHED
IDENTICAL
S1112
INCREMENT RETRIAL COUNTER FOR DEFECTIVE BLOCKS
S1115
INCREMENT RETRIAL COUNTER
END
UNFINISHED
S1109
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED
S1113
IS UPPER LIMIT OF RETRIALS EXCEEDED?
NOT EXCEEDED
S1109
S1116
IS UPPER LIMIT OF RETRIALS EXCEEDED?
NOT EXCEEDED
EXCEEDED
S1114
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
EXCEEDED
S1117
RETRIAL COUNTER ← 0
S1110
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED

FIG.12

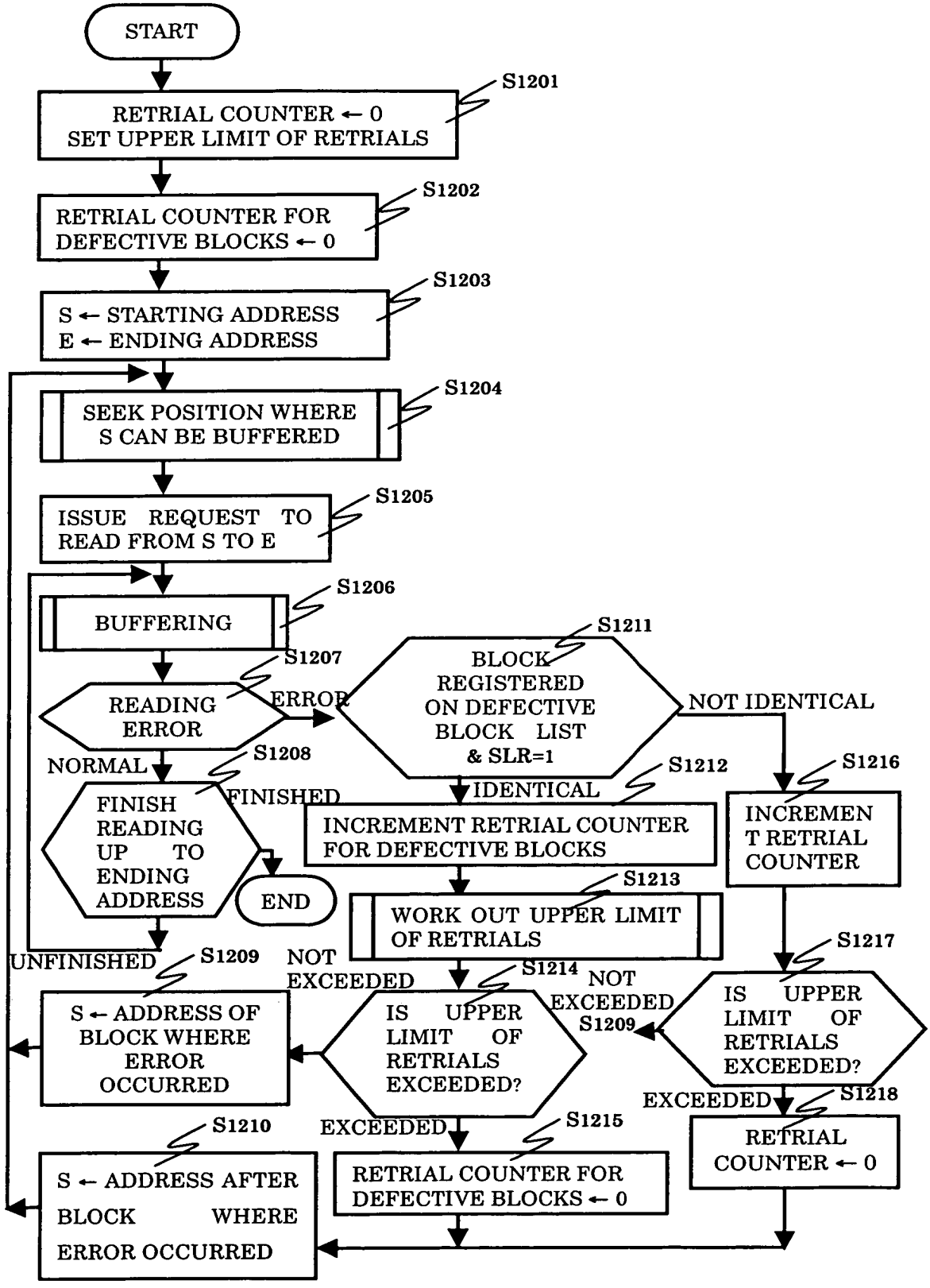
START
S1201
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S1202
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
S1203
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S1204
SEEK POSITION WHERE S CAN BE BUFFERED
S1205
ISSUE REQUEST TO READ FROM S TO E
S1206
BUFFERING
S1207
READING ERROR
ERROR
S1211
BLOCK REGISTERED ON DEFECTIVE BLOCK LIST & SLR=1
NOT IDENTICAL
S1216
INCREMENT RETRIAL COUNTER
NORMAL
S1208
FINISH READING UP TO ENDING ADDRESS
FINISHED
END
IDENTICAL
S1212
INCREMENT RETRIAL COUNTER FOR DEFECTIVE BLOCKS
S1213
WORK OUT UPPER LIMIT OF RETRIALS
UNFINISHED
S1209
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED
NOT EXCEEDED
S1214
IS UPPER LIMIT OF RETRIALS EXCEEDED?
NOT EXCEEDED
S1217
IS UPPER LIMIT OF RETRIALS EXCEEDED?
S1209
EXCEEDED
S1218
RETRIAL COUNTER ← 0
EXCEEDED
S1215
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
S1210
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED

FIG.13

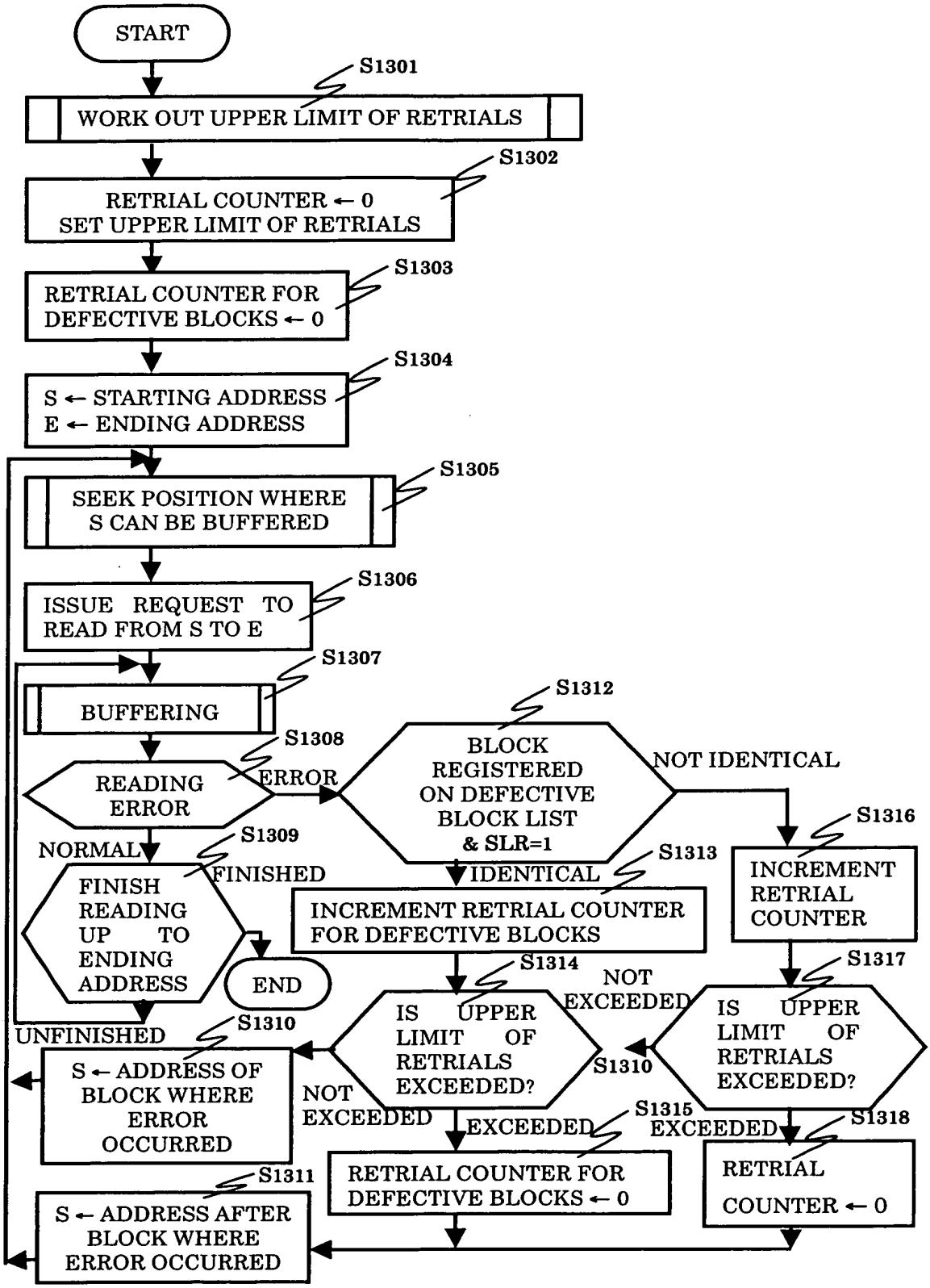
START
S1301
WORK OUT UPPER LIMIT OF RETRIALS
S1302
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S1303
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
S1304
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S1305
SEEK POSITION WHERE S CAN BE BUFFERED
S1306
ISSUE REQUEST TO READ FROM S TO E
S1307
BUFFERING
S1308
READING ERROR
ERROR
S1312
BLOCK REGISTERED ON DEFECTIVE BLOCK LIST & SLR=1
NOT IDENTICAL
S1316
INCREMENT RETRIAL COUNTER
NORMAL
S1309
FINISHED
FINISH READING UP TO ENDING ADDRESS
END
IDENTICAL
S1313
INCREMENT RETRIAL COUNTER FOR DEFECTIVE BLOCKS
S1314
IS UPPER LIMIT OF RETRIALS EXCEEDED?
NOT EXCEEDED
S1317
IS UPPER LIMIT OF RETRIALS EXCEEDED?
S1310
UNFINISHED
S1310
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED
NOT EXCEEDED
EXCEEDED
S1315
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
EXCEEDED
S1318
RETRIAL COUNTER ← 0
S1311
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED

FIG.14

BIT BYTE	7	6	5	4	3	2	1	0
0	CODE VALUE TO INDICATE REPRODUCTION REQUEST							
1								
2	HEAD ADDRESS OF REPRODUCTION DATA							
3								
4								
5								
6	LENGTH OF REPRODUCTION DATA							
7								
8								
9								
10	FLAG INDICATING THAT "REAL TIME REPRODUCTION IS IMPORTANT"	RESERVED AREA						
11								

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FIG.15

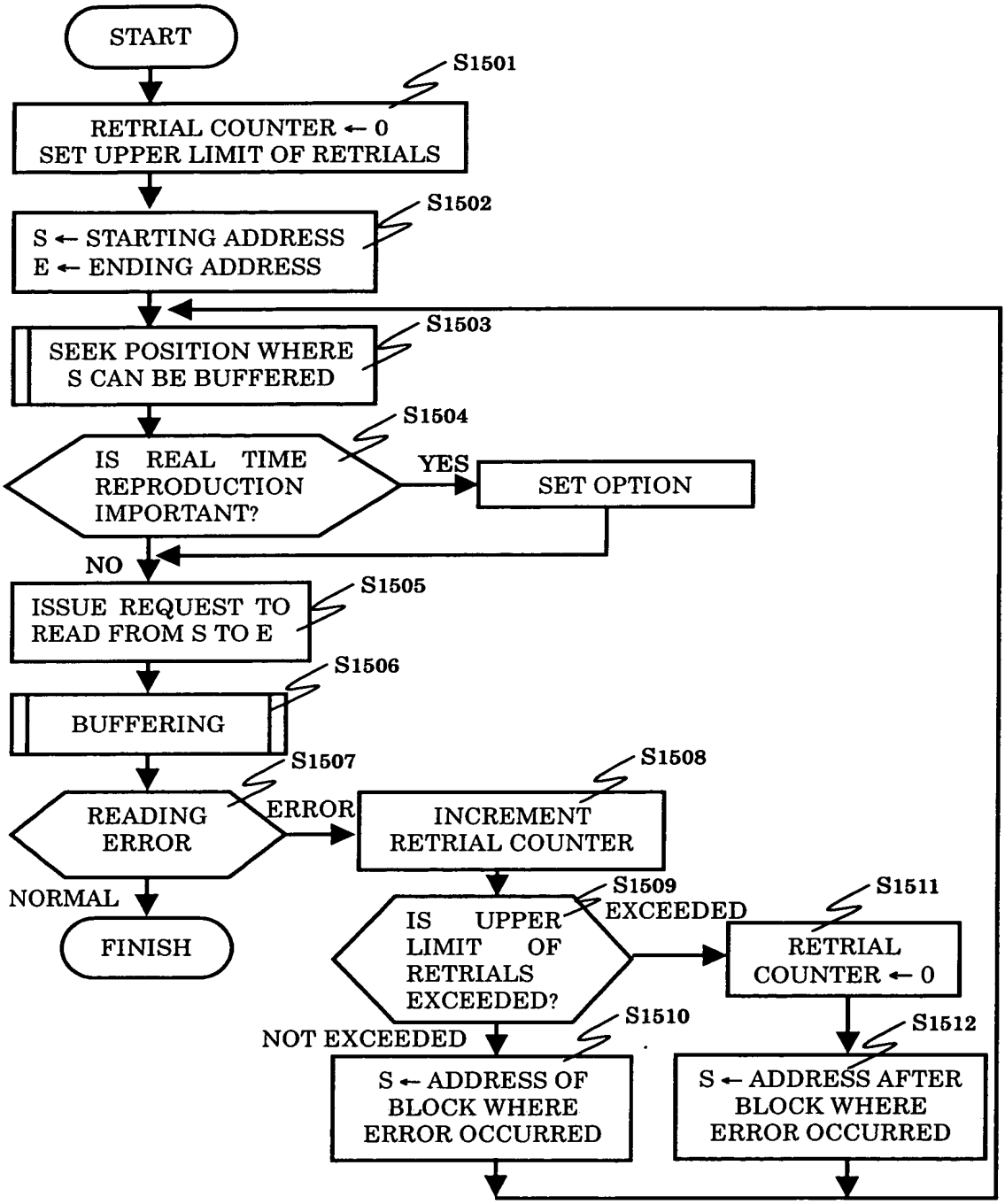
START
S1501
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S1502
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S1503
SEEK POSITION WHERE S CAN BE BUFFERED
S1504
IS REAL TIME REPRODUCTION IMPORTANT?
YES
SET OPTION
NO
S1505
ISSUE REQUEST TO READ FROM S TO E
S1506
BUFFERING
S1507
READING ERROR
ERROR
S1508
INCREMENT RETRIAL COUNTER
NORMAL
FINISH
S1509
IS UPPER LIMIT OF RETRIALS EXCEEDED?
EXCEEDED
S1511
RETRIAL COUNTER ← 0
NOT EXCEEDED
S1510
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED
S1512
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED

FIG.16

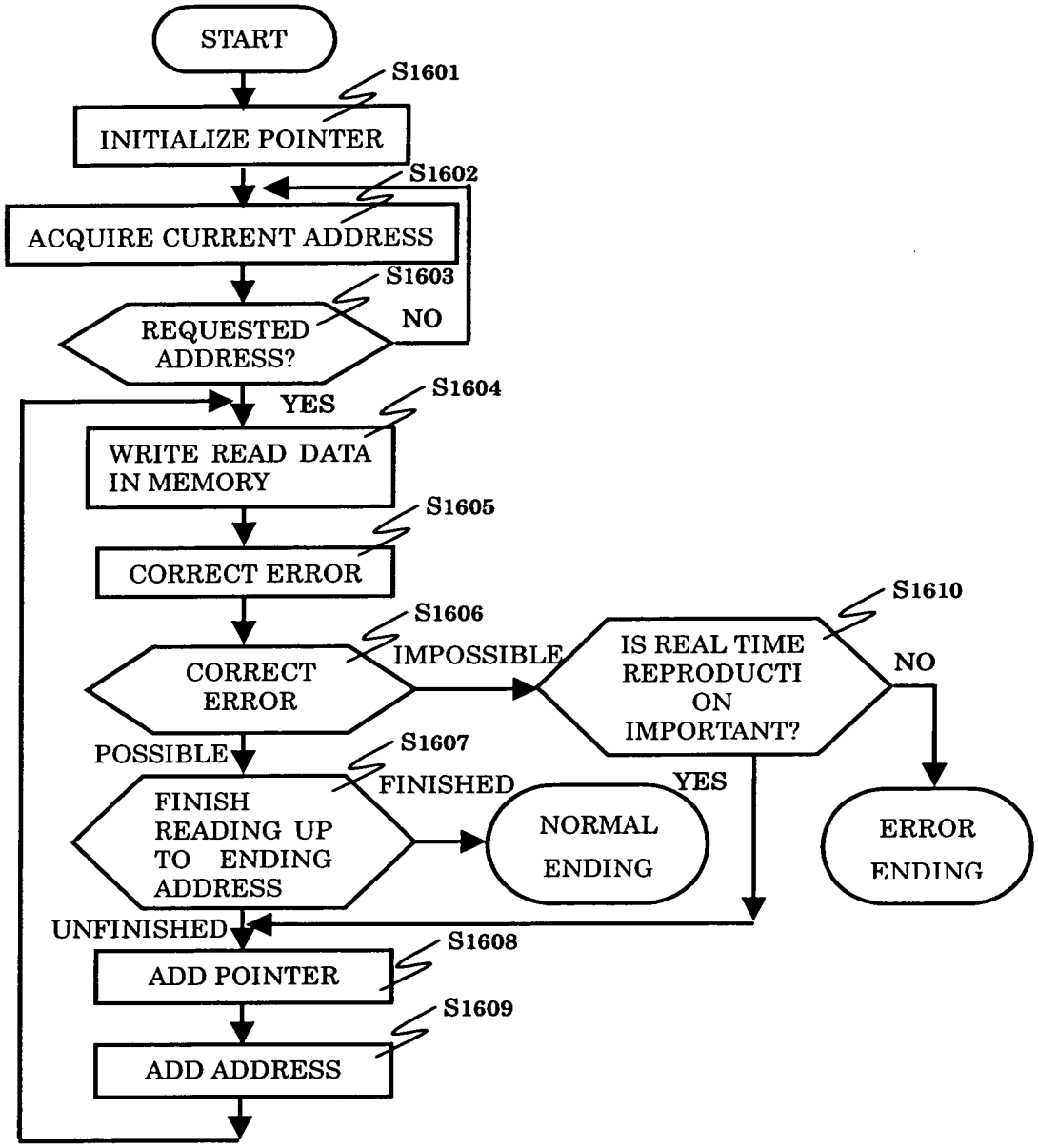
START
S1601
INITIALIZE POINTER
S1602
ACQUIRE CURRENT ADDRESS
S1603
REQUESTED ADDRESS?
NO
YES
S1604
WRITE READ DATA IN MEMORY
S1605
CORRECT ERROR
S1606
CORRECT ERROR
IMPOSSIBLE
S1610
IS REAL TIME REPRODUCTION IMPORTANT?
NO
YES
ERROR ENDING
POSSIBLE
S1607
FINISH READING UP TO ENDING ADDRESS
FINISHED
NORMAL ENDING
UNFINISHED
S1608
ADD POINTER
S1609
ADD ADDRESS

FIG.17

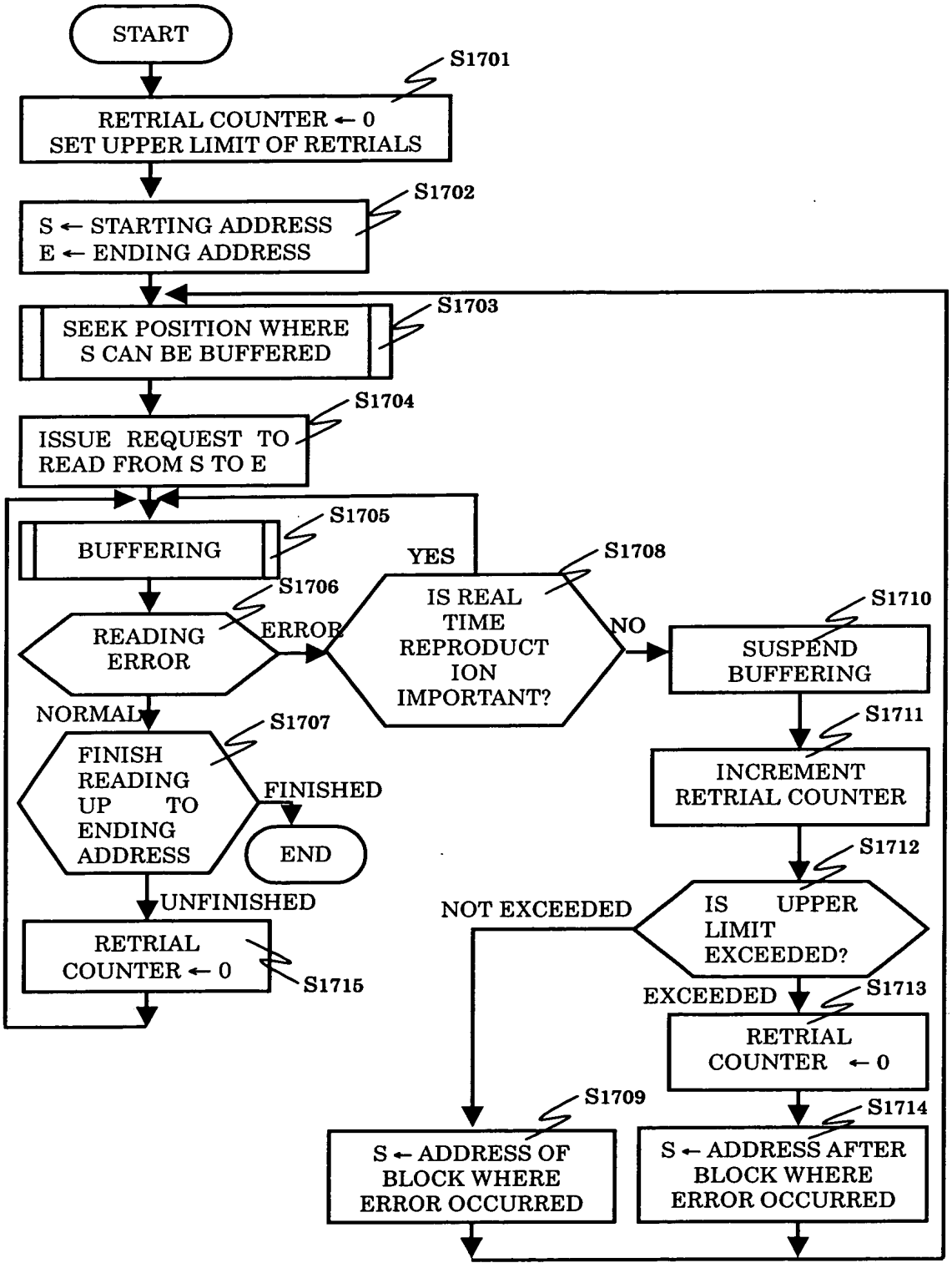
START
S1701
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S1702
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S1703
SEEK POSITION WHERE S CAN BE BUFFERED
S1704
ISSUE REQUEST TO READ FROM S TO E
S1705
BUFFERING
S1706
READING ERROR
ERROR
YES
S1708
IS REAL TIME REPRODUCTION IMPORTANT?
NO
S1710
SUSPEND BUFFERING
S1711
INCREMENT RETRIAL COUNTER
S1712
IS UPPER LIMIT EXCEEDED?
NOT EXCEEDED
EXCEEDED
S1713
RETRIAL COUNTER ← 0
S1714
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED
NORMAL
S1707
FINISH READING UP TO ENDING ADDRESS
FINISHED
END
UNFINISHED
RETRIAL COUNTER ← 0
S1715
S1709
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED

FIG.18

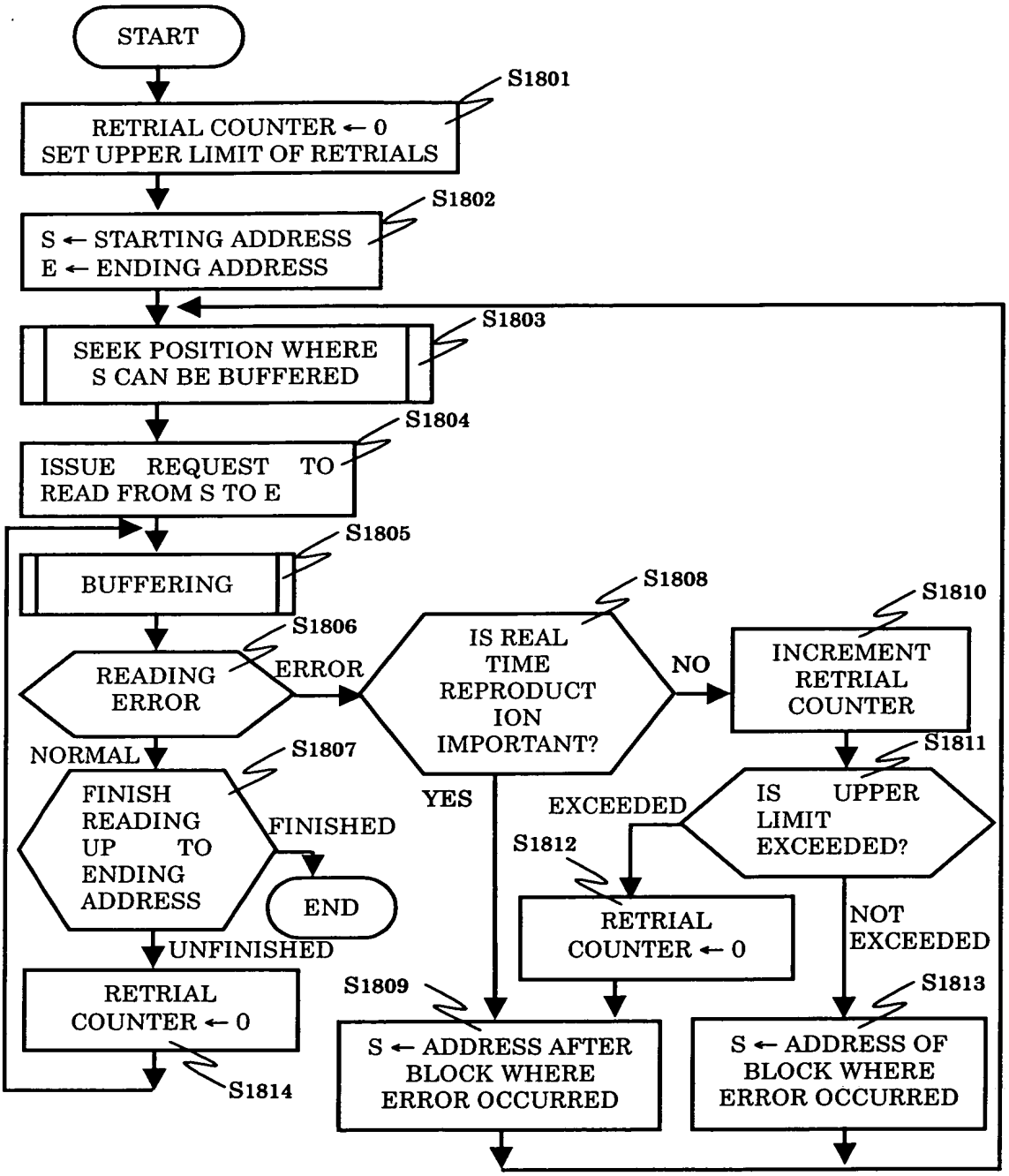
START
S1801
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S1802
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S1803
SEEK POSITION WHERE S CAN BE BUFFERED
S1804
ISSUE REQUEST TO READ FROM S TO E
S1805
BUFFERING
S1806
READING ERROR
ERROR
S1808
IS REAL TIME REPRODUCTION IMPORTANT?
NO
S1810
INCREMENT RETRIAL COUNTER
NORMAL
S1807
FINISH READING UP TO ENDING ADDRESS
FINISHED
END
UNFINISHED
YES
EXCEEDED
S1811
IS UPPER LIMIT EXCEEDED?
S1812
RETRIAL COUNTER ← 0
NOT EXCEEDED
RETRIAL COUNTER ← 0
S1814
S1809
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED
S1813
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED

FIG.19

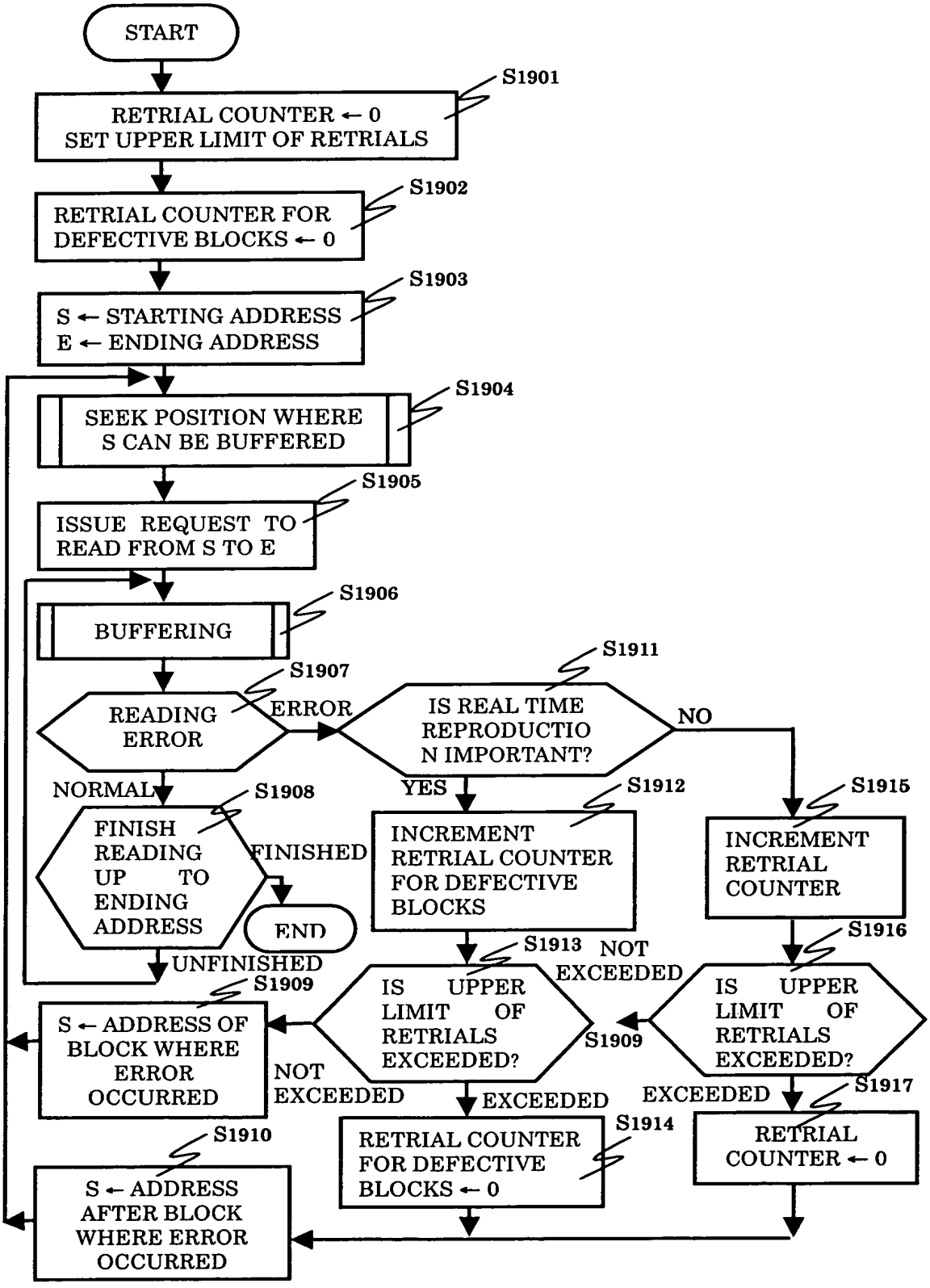
START
S1901
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S1902
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
S1903
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S1904
SEEK POSITION WHERE S CAN BE BUFFERED
S1905
ISSUE REQUEST TO READ FROM S TO E
S1906
BUFFERING
S1907
READING ERROR
ERROR
S1911
IS REAL TIME REPRODUCTIO N IMPORTANT?
NO
NORMAL
S1908
FINISH READING UP TO ENDING ADDRESS
FINISHED
END
UNFINISHED
YES
S1912
INCREMENT RETRIAL COUNTER FOR DEFECTIVE BLOCKS
S1915
INCREMENT RETRIAL COUNTER
S1916
S1913
NOT EXCEEDED
IS UPPER LIMIT OF RETRIALS EXCEEDED?
S1909
IS UPPER LIMIT OF RETRIALS EXCEEDED?
S1909
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED
NOT EXCEEDED
EXCEEDED
EXCEEDED
S1917
S1914
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
RETRIAL COUNTER ← 0
S1910
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED

FIG.20

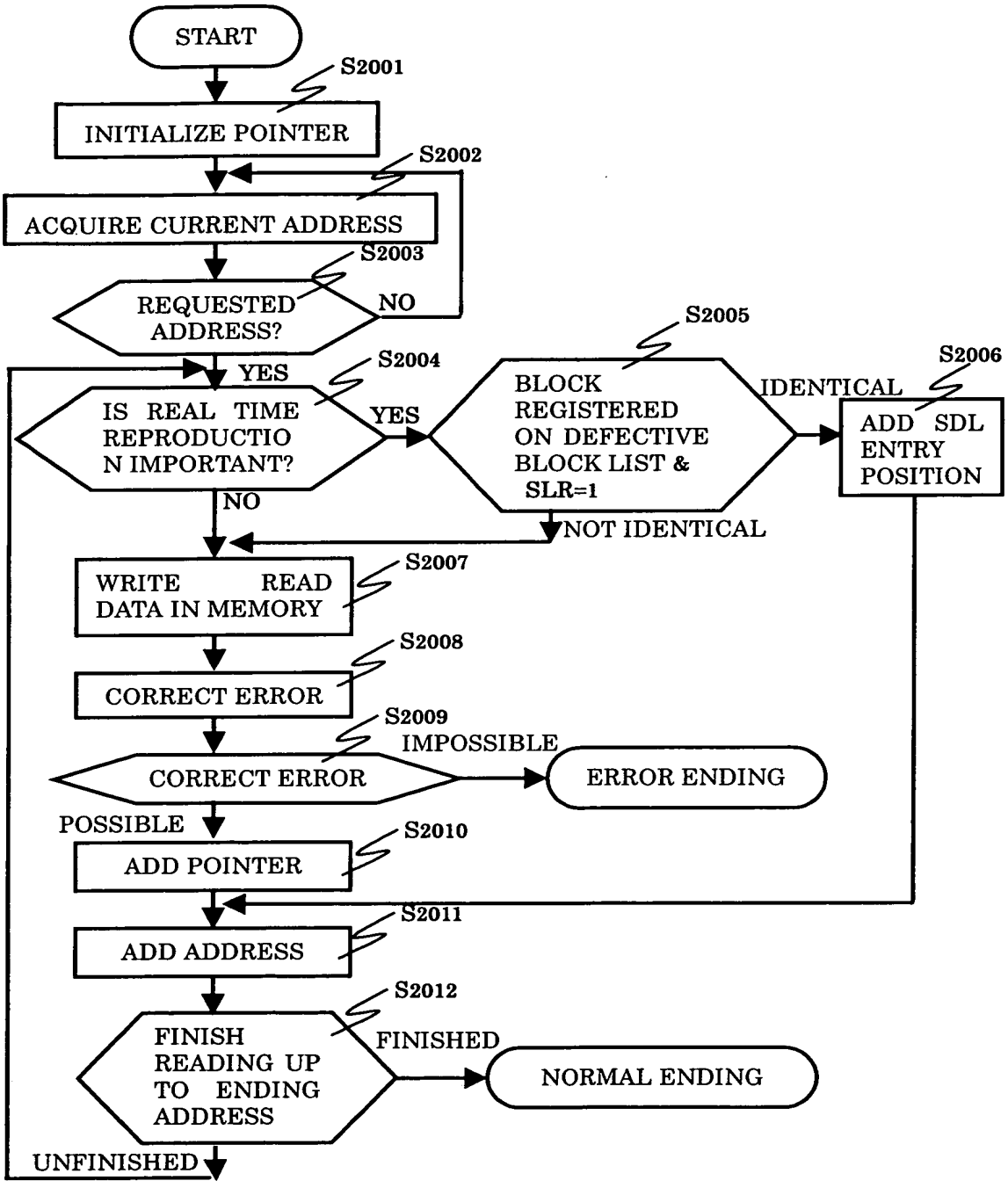
START
S2001
INITIALIZE POINTER
S2002
ACQUIRE CURRENT ADDRESS
S2003
REQUESTED ADDRESS?
NO
YES
S2004
IS REAL TIME REPRODUCTIO N IMPORTANT?
YES
S2005
BLOCK REGISTERED ON DEFECTIVE BLOCK LIST & SLR=1
IDENTICAL
S2006
ADD SDL ENTRY POSITION
NO
NOT IDENTICAL
S2007
WRITE READ DATA IN MEMORY
S2008
CORRECT ERROR
S2009
CORRECT ERROR
IMPOSSIBLE
ERROR ENDING
POSSIBLE
S2010
ADD POINTER
S2011
ADD ADDRESS
S2012
FINISH READING UP TO ENDING ADDRESS
FINISHED
NORMAL ENDING
UNFINISHED

FIG.21

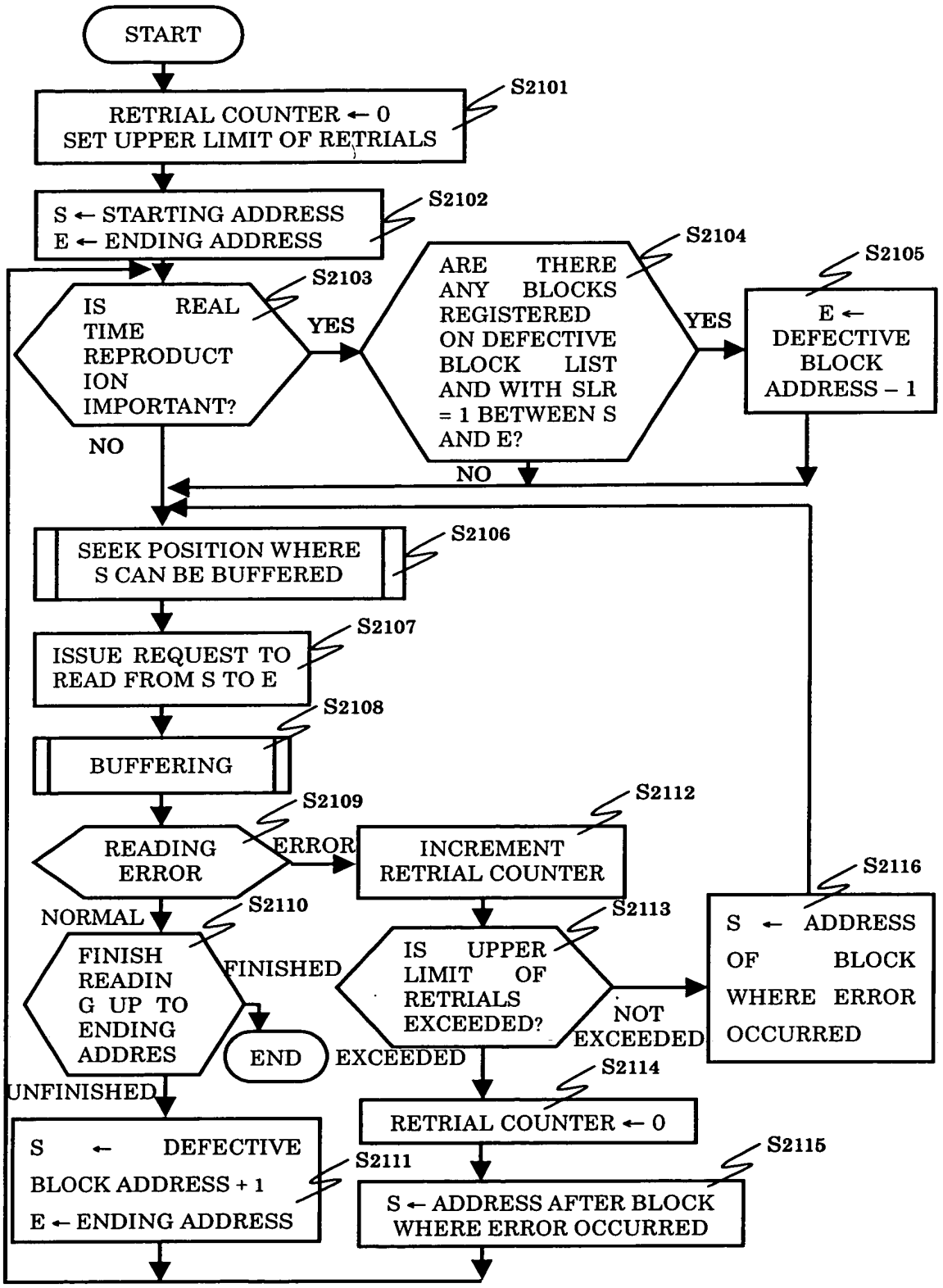
START
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S2101
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S2102
IS REAL TIME REPRODUCTION IMPORTANT?
S2103
YES
NO
ARE THERE ANY BLOCKS REGISTERED ON DEFECTIVE BLOCK LIST AND WITH SLR = 1 BETWEEN S AND E?
S2104
YES
NO
E ← DEFECTIVE BLOCK ADDRESS – 1
S2105
SEEK POSITION WHERE S CAN BE BUFFERED
S2106
ISSUE REQUEST TO READ FROM S TO E
S2107
BUFFERING
S2108
READING ERROR
S2109
ERROR
NORMAL
INCREMENT RETRIAL COUNTER
S2112
FINISH READING UP TO ENDING ADDRES
S2110
FINISHED
END
UNFINISHED
IS UPPER LIMIT OF RETRIALS EXCEEDED?
S2113
NOT EXCEEDED
EXCEEDED
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED
S2116
RETRIAL COUNTER ← 0
S2114
S ← DEFECTIVE BLOCK ADDRESS + 1
E ← ENDING ADDRESS
S2111
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED
S2115

FIG.22

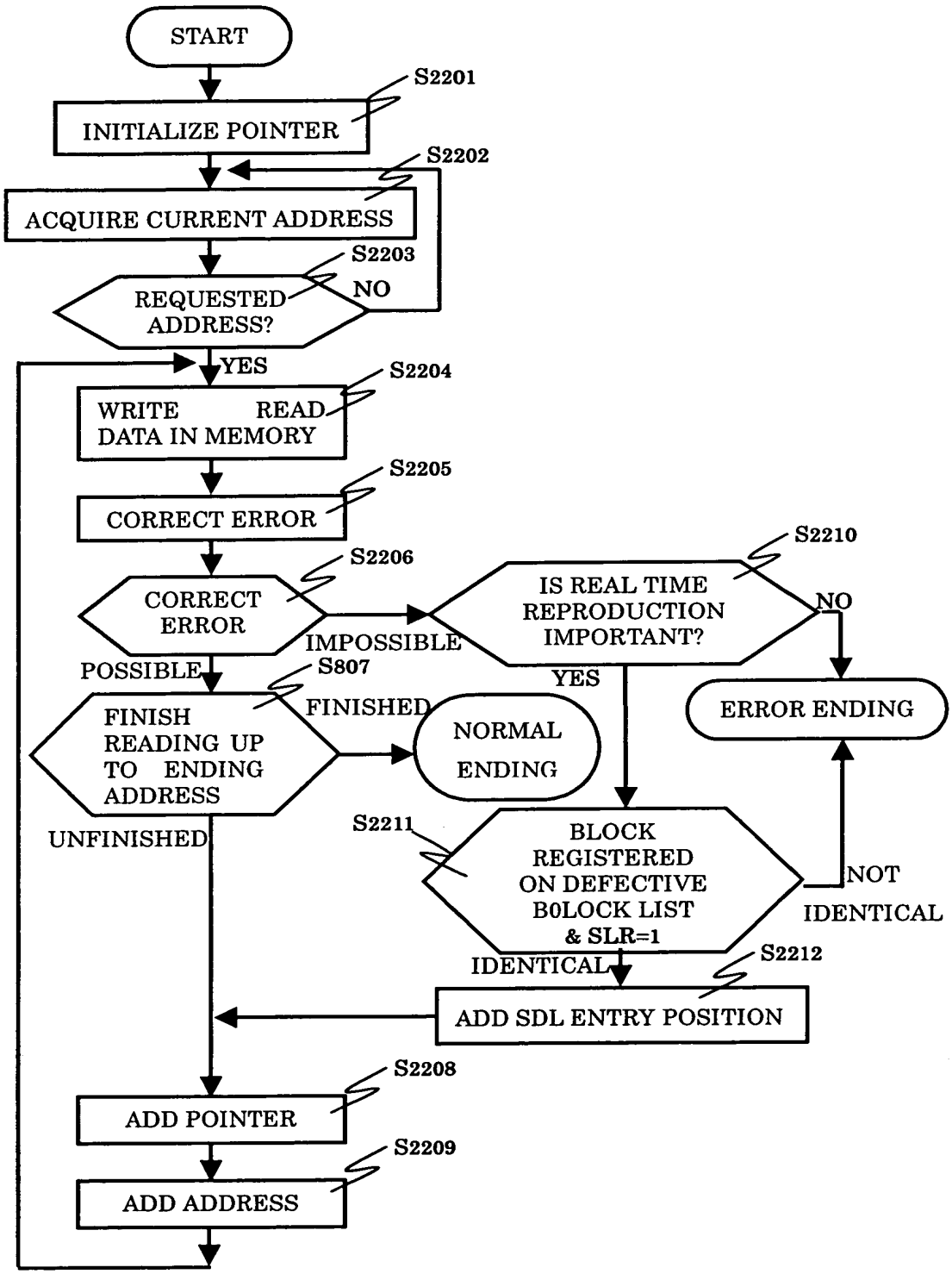
START
S2201
INITIALIZE POINTER
S2202
ACQUIRE CURRENT ADDRESS
S2203
REQUESTED ADDRESS?
NO
YES
S2204
WRITE READ DATA IN MEMORY
S2205
CORRECT ERROR
S2206
CORRECT ERROR
IMPOSSIBLE
POSSIBLE
S807
FINISH READING UP TO ENDING ADDRESS
FINISHED
NORMAL ENDING
UNFINISHED
S2210
IS REAL TIME REPRODUCTION IMPORTANT?
NO
YES
ERROR ENDING
S2211
BLOCK REGISTERED ON DEFECTIVE BOLOCK LIST & SLR=1
NOT IDENTICAL
IDENTICAL
S2212
ADD SDL ENTRY POSITION
S2208
ADD POINTER
S2209
ADD ADDRESS

FIG.23

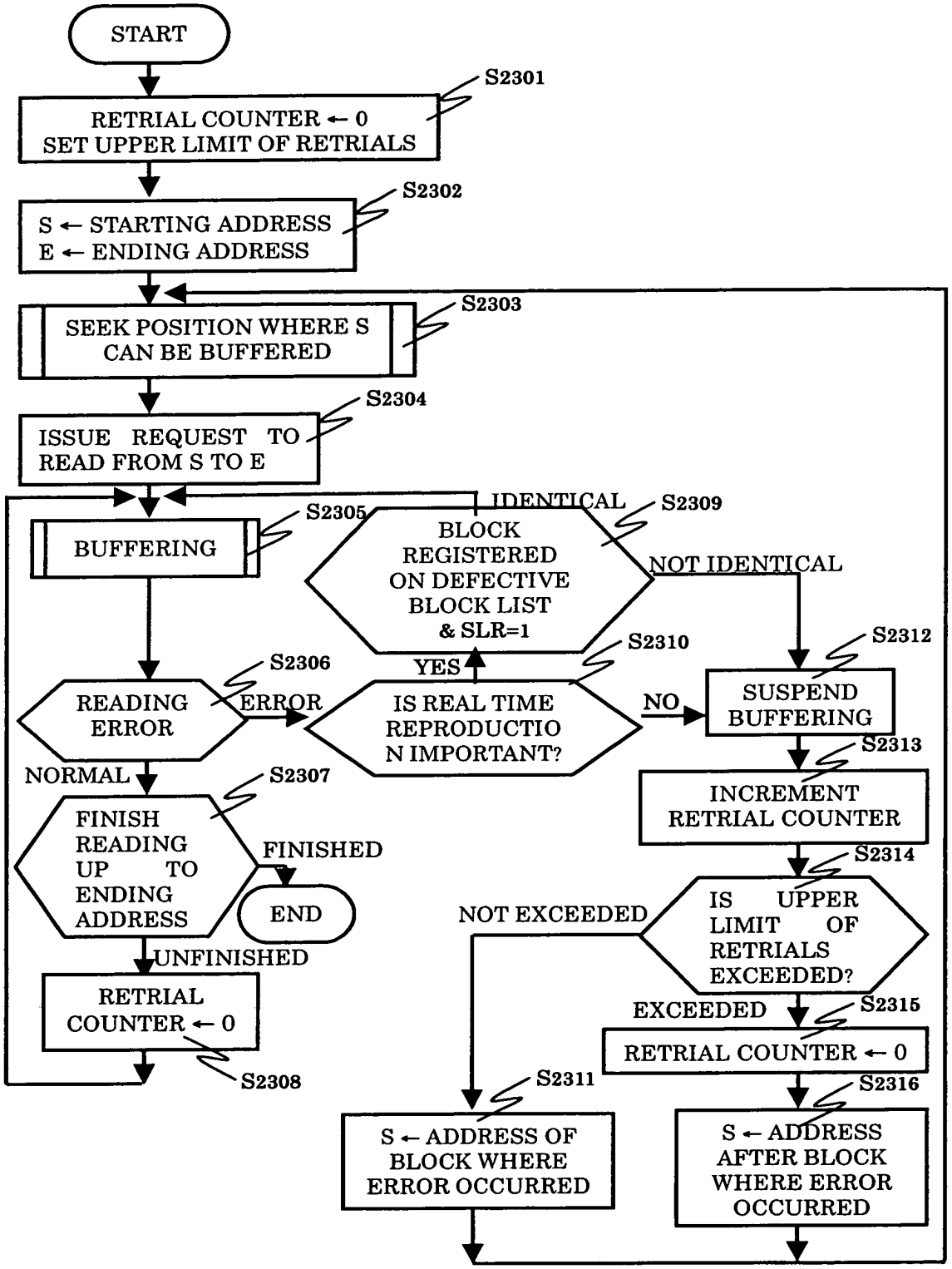
START
S2301
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S2302
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S2303
SEEK POSITION WHERE S CAN BE BUFFERED
S2304
ISSUE REQUEST TO READ FROM S TO E
S2305
BUFFERING
S2306
READING ERROR
ERROR
NORMAL
S2307
FINISH READING UP TO ENDING ADDRESS
FINISHED
END
UNFINISHED
RETRIAL COUNTER ← 0
S2308
IDENTICAL
S2309
BLOCK REGISTERED ON DEFECTIVE BLOCK LIST & SLR=1
NOT IDENTICAL
S2310
YES
IS REAL TIME REPRODUCTIO N IMPORTANT?
NO
S2312
SUSPEND BUFFERING
S2313
INCREMENT RETRIAL COUNTER
S2314
IS UPPER LIMIT OF RETRIALS EXCEEDED?
NOT EXCEEDED
EXCEEDED
S2315
RETRIAL COUNTER ← 0
S2311
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED
S2316
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED

FIG.24

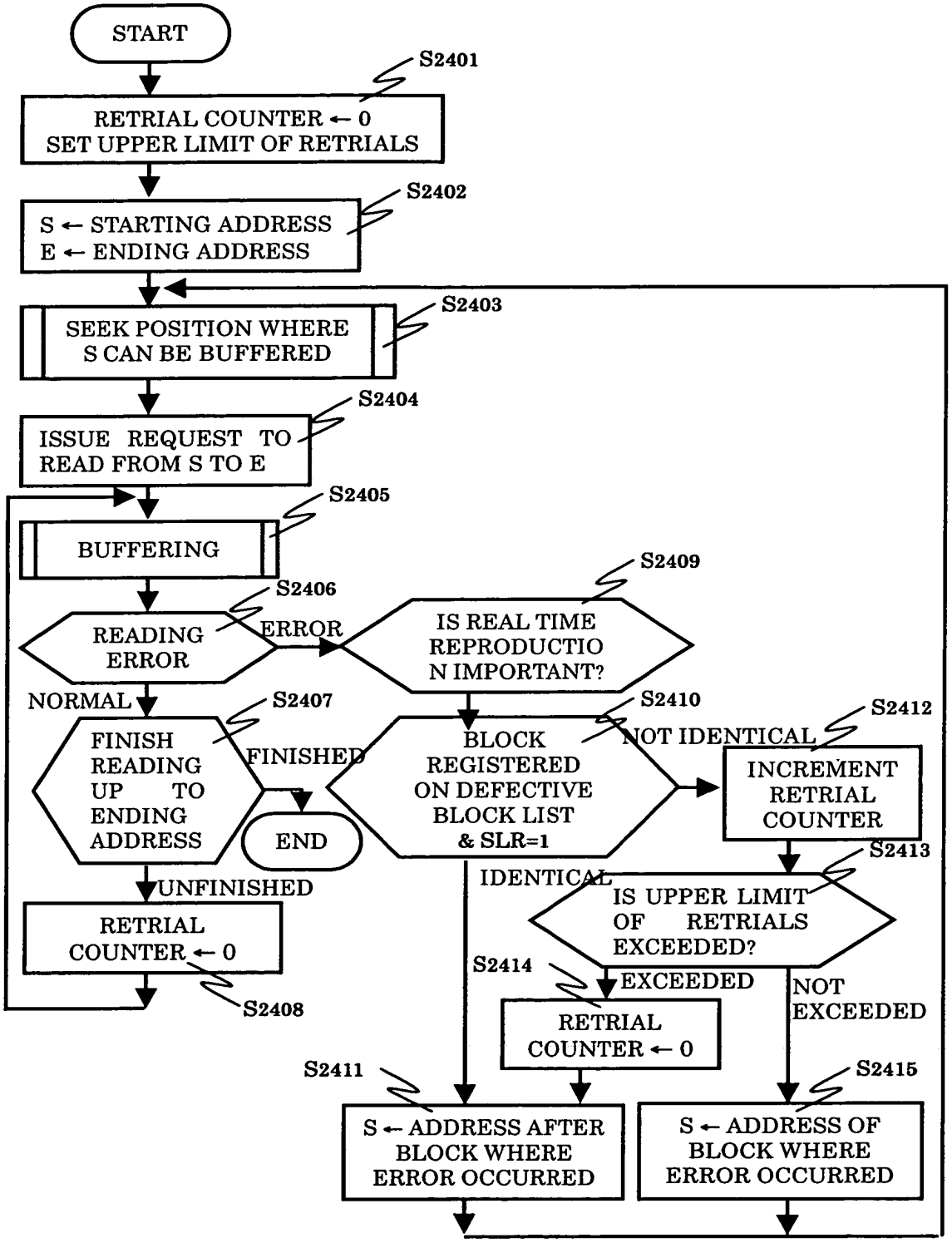
START
S2401
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S2402
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S2403
SEEK POSITION WHERE S CAN BE BUFFERED
S2404
ISSUE REQUEST TO READ FROM S TO E
S2405
BUFFERING
S2406
READING ERROR
ERROR
S2409
IS REAL TIME REPRODUCTIO N IMPORTANT?
NORMAL
S2407
FINISH READING UP TO ENDING ADDRESS
FINISHED
END
UNFINISHED
RETRIAL COUNTER ← 0
S2408
S2410
BLOCK REGISTERED ON DEFECTIVE BLOCK LIST & SLR=1
NOT IDENTICAL
S2412
INCREMENT RETRIAL COUNTER
S2413
IDENTICAL
IS UPPER LIMIT OF RETRIALS EXCEEDED?
S2414
EXCEEDED
RETRIAL COUNTER ← 0
NOT EXCEEDED
S2411
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED
S2415
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED

FIG.25

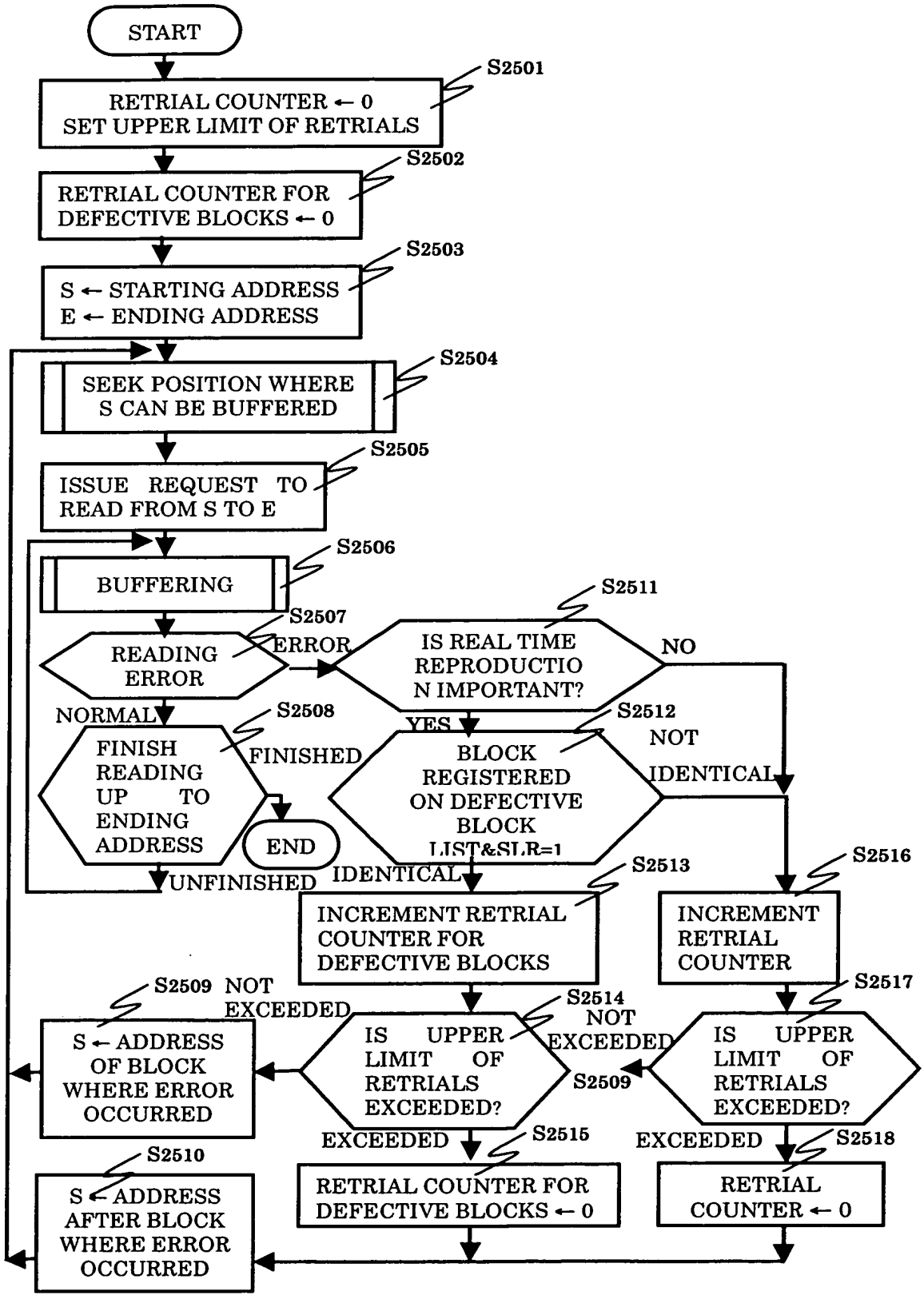
START
S2501
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S2502
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
S2503
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S2504
SEEK POSITION WHERE S CAN BE BUFFERED
S2505
ISSUE REQUEST TO READ FROM S TO E
S2506
BUFFERING
S2507
READING ERROR
ERROR
S2511
IS REAL TIME REPRODUCTIO N IMPORTANT?
NO
NORMAL
S2508
FINISH READING UP TO ENDING ADDRESS
FINISHED
END
YES
S2512
BLOCK REGISTERED ON DEFECTIVE BLOCK LIST&SI.R=1
NOT IDENTICAL
UNFINISHED
IDENTICAL
S2513
INCREMENT RETRIAL COUNTER FOR DEFECTIVE BLOCKS
S2516
INCREMENT RETRIAL COUNTER
S2509
NOT EXCEEDED
S2514
NOT EXCEEDED
S2517
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED
IS UPPER LIMIT OF RETRIALS EXCEEDED?
S2509
IS UPPER LIMIT OF RETRIALS EXCEEDED?
EXCEEDED
S2515
EXCEEDED
S2518
S2510
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
RETRIAL COUNTER ← 0

FIG.26

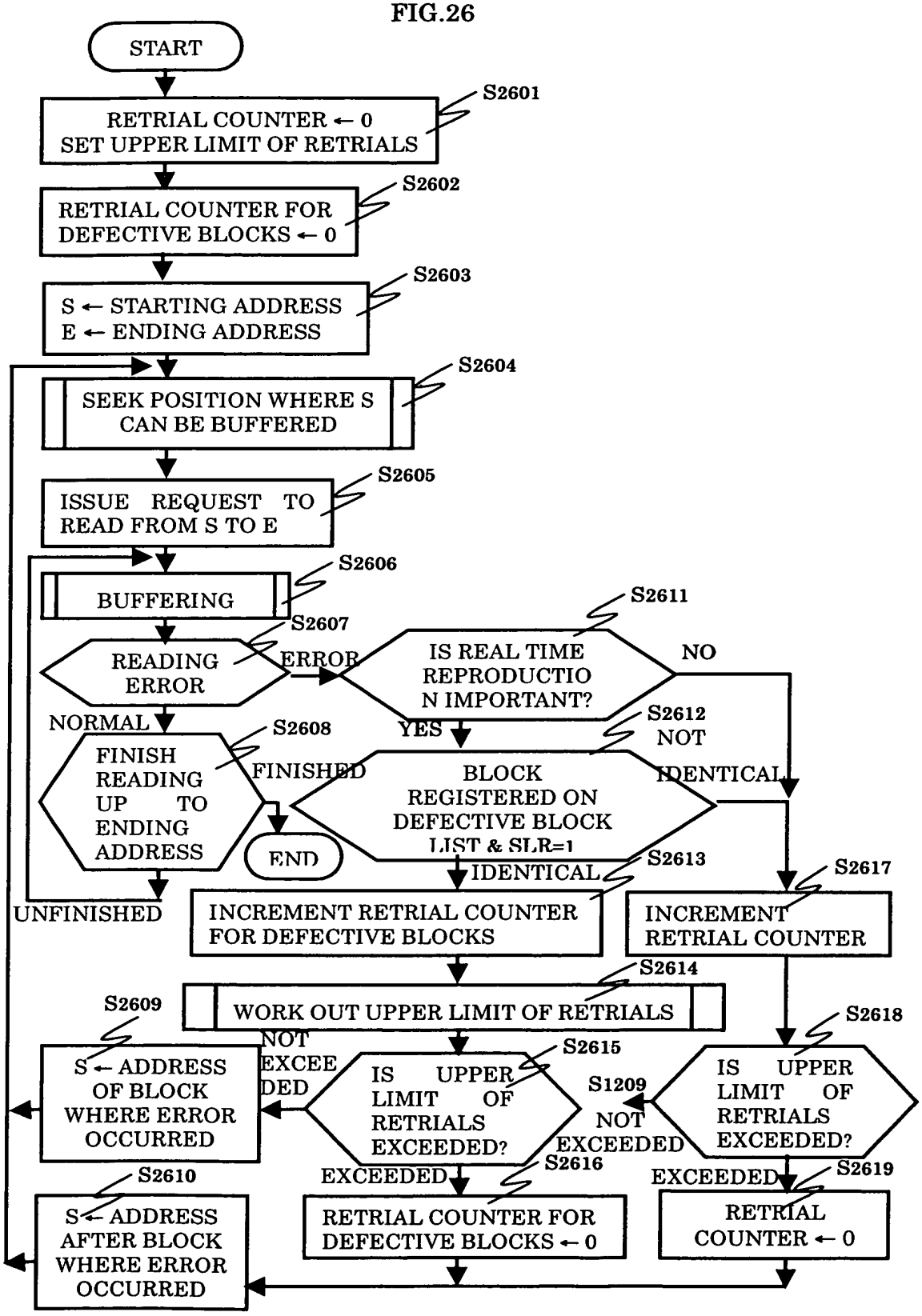

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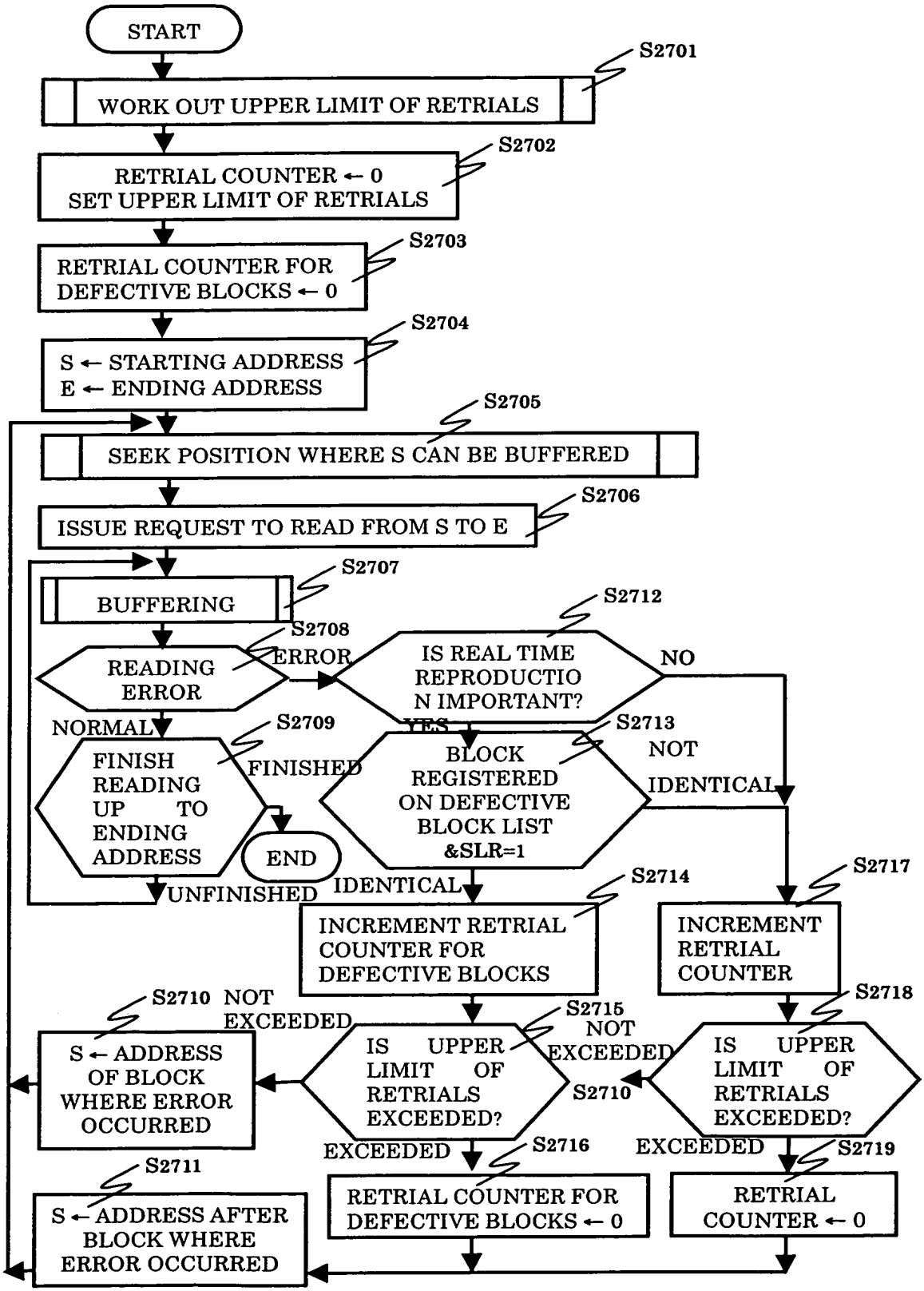
FIG.27


START
S2701
WORK OUT UPPER LIMIT OF RETRIALS
S2702
RETRIAL COUNTER ← 0
SET UPPER LIMIT OF RETRIALS
S2703
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
S2704
S ← STARTING ADDRESS
E ← ENDING ADDRESS
S2705
SEEK POSITION WHERE S CAN BE BUFFERED
S2706
ISSUE REQUEST TO READ FROM S TO E
S2707
BUFFERING
S2708
READING ERROR
ERROR
NORMAL
S2709
FINISH READING UP TO ENDING ADDRESS
FINISHED
END
UNFINISHED
S2712
IS REAL TIME REPRODUCTIO N IMPORTANT?
NO
YES
S2713
BLOCK REGISTERED ON DEFECTIVE BLOCK LIST &SLR=1
NOT IDENTICAL
IDENTICAL
S2714
INCREMENT RETRIAL COUNTER FOR DEFECTIVE BLOCKS
S2717
INCREMENT RETRIAL COUNTER
S2710
NOT EXCEEDED
S ← ADDRESS OF BLOCK WHERE ERROR OCCURRED
S2715
IS UPPER LIMIT OF RETRIALS EXCEEDED?
NOT EXCEEDED
S2718
IS UPPER LIMIT OF RETRIALS EXCEEDED?
S2710
EXCEEDED
S2716
RETRIAL COUNTER FOR DEFECTIVE BLOCKS ← 0
EXCEEDED
S2719
RETRIAL COUNTER ← 0
S2711
S ← ADDRESS AFTER BLOCK WHERE ERROR OCCURRED